

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Noriyoshi SATO et al.

Application No.: 10/539,569

Filed: June 17, 2005

Docket No.: 124305

For: PLASMA GENERATOR, OZONE GENERATOR, SUBSTRATE PROCESSING APPARATUS AND METHOD OF MANUFACTURING SEMICONDUCTOR DEVICE

TRANSMITTAL OF POWER OF ATTORNEY AND STATEMENT UNDER 37 CFR § 3.73(b)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Submitted herewith is a Power of Attorney from the Assignees.

In compliance with 37 CFR §3.73(b), the undersigned hereby states that HITACHI KOKUSAI ELECTRIC INC.; ADTEC PLASMA TECHNOLOGY CO., LTD., NORIYOSHI SATO; and HIROSHI MASE are together the assignees of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventors of the patent application identified above. A copy of the assignment is attached hereto.

The undersigned is authorized to act on behalf of the assignee.

In accordance with 37 CFR §1.36(a), submission of this Power of Attorney revokes any powers of attorney previously given.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.

Respectfully submitted,


Eric D. Morehouse
Registration No. 38.565

JAO:EDM/cqc

Date: August 24, 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Group Art Unit:

Application No.:

Examiner:

Filed:

Docket No.:

For: PLASMA GENERATOR, OZONE GENERATOR, SUBSTRATE PROCESSING APPARATUS AND MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE

SPECIFIC POWER OF ATTORNEY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

HITACHI KOKUSAI ELECTRIC INC., owner or co-owner of the entire right, title and interest in the above patent application by virtue of:

- a. being an inventor, or
- b. an Assignment
 - i. copy attached, or
 - ii. recorded at Reel , Frame of the Patent Office microfilm records,

hereby appoints the patent practitioners associated with Oliff & Berridge, PLC Customer No. 25944 as attorneys of record to prosecute this application and all continuations and divisions thereof, and to transact all business in the Patent and Trademark Office.

The undersigned has reviewed the chain of title and confirms that the aforesaid title is in the owner. The undersigned is authorized to execute this document as or on behalf of the owner.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944,
TELEPHONE (703) 836-6400.**

Aug. 23, 2005
Date

M. Kaneko

Signature

Typed Name: Masanori Kaneko

Title: Chief of the Intellectual property department
(if acting on behalf of an Owner)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Group Art Unit:

Application No.:

Examiner:

Filed:

Docket No.:

For: PLASMA GENERATOR, OZONE GENERATOR, SUBSTRATE PROCESSING APPARATUS AND MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE

SPECIFIC POWER OF ATTORNEY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

ADTEC PLASMA TECHNOLOGY CO., LTD., owner or co-owner of the entire right, title and interest in the above patent application by virtue of:

- a. being an inventor, or
- b. an Assignment
 - i. copy attached, or
 - ii. recorded at Reel _____, Frame _____ of the Patent Office microfilm records,

hereby appoints the patent practitioners associated with Oliff & Berridge, PLC Customer No. 25944 as attorneys of record to prosecute this application and all continuations and divisions thereof, and to transact all business in the Patent and Trademark Office.

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**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944,
TELEPHONE (703) 836-6400.**

August 12, 2005
Date

Shuitsu Fujii
Signature

Typed Name: Shuitsu FUJII

Title: President
(if acting on behalf of an Owner)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Group Art Unit:

Application No.:

Examiner:

Filed:

Docket No.:

For: **PLASMA GENERATOR, OZONE GENERATOR, SUBSTRATE PROCESSING APPARATUS AND MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE**

SPECIFIC POWER OF ATTORNEY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Tamiya FUJIWARA, owner or co-owner of the entire right, title and interest in the above patent application by virtue of:

- a. being an inventor, or
- b. an Assignment
 - i. copy attached, or
 - ii. recorded at Reel _____, Frame _____ of the Patent Office microfilm records,

hereby appoints the patent practitioners associated with Oliff & Berridge, PLC Customer No. 25944 as attorneys of record to prosecute this application and all continuations and divisions thereof, and to transact all business in the Patent and Trademark Office.

The undersigned has reviewed the chain of title and confirms that the aforesaid title is in the owner. The undersigned is authorized to execute this document as or on behalf of the owner.

ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944, TELEPHONE (703) 836-6400.

August 7, 2005
Date

Tamiya FUJIWARA
Signature

Typed Name: Tamiya FUJIWARA

Title: _____
(if acting on behalf of an Owner)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Group Art Unit:

Application No.:

Examiner:

Filed:

Docket No.:

For: PLASMA GENERATOR, OZONE GENERATOR, SUBSTRATE PROCESSING APPARATUS AND MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE

SPECIFIC POWER OF ATTORNEY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Noriyoshi SATO, owner or co-owner of the entire right, title and interest in the above patent application by virtue of:

- a. being an inventor, or
- b. an Assignment
 - i. copy attached, or
 - ii. recorded at Reel _____, Frame _____ of the Patent Office microfilm records,

hereby appoints the patent practitioners associated with Oliff & Berridge, PLC Customer No. 25944 as attorneys of record to prosecute this application and all continuations and divisions thereof, and to transact all business in the Patent and Trademark Office.

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**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944,
TELEPHONE (703) 836-6400.**

July 28, 2005

Date

Noriyoshi SATO
Signature

Typed Name: Noriyoshi SATO

Title: _____
(if acting on behalf of an Owner)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Group Art Unit:

Application No.:

Examiner:

Filed:

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For: PLASMA GENERATOR, OZONE GENERATOR, SUBSTRATE PROCESSING APPARATUS AND MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE

SPECIFIC POWER OF ATTORNEY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Hiroshi MASE, owner or co-owner of the entire right, title and interest in the above patent application by virtue of:

- a. being an inventor, or
- b. an Assignment
 - i. copy attached, or
 - ii. recorded at Reel _____, Frame _____ of the Patent Office microfilm records,

hereby appoints the patent practitioners associated with Oliff & Berridge, PLC Customer No. 25944 as attorneys of record to prosecute this application and all continuations and divisions thereof, and to transact all business in the Patent and Trademark Office.

The undersigned has reviewed the chain of title and confirms that the aforesaid title is in the owner. The undersigned is authorized to execute this document as or on behalf of the owner.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION
SHOULD BE SENT TO OLIFF & BERRIDGE, PLC, CUSTOMER NO. 25944,
TELEPHONE (703) 836-6400.**

June 30, 2005
Date

Hiroshi MASE
Signature

Typed Name: Hiroshi MASE

Title: _____
(if acting on behalf of an Owner)

ASSIGNMENT

(1-8) Insert Name(s) of Inventor(s)	(1) <u>Noriyoshi SATO</u>	(5) <u>Tomiya FUJIWARA</u>
	(2) <u>Takeshi TANIGUCHI</u>	(6) _____
	(3) <u>Hiroshi MASE</u>	(7) _____
	(4) <u>Shuatsu FUJII</u>	(8) _____

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9) Insert Name of Assignee	(9) <u>1) HITACHI KOKUSAI ELECTRIC INC.</u> <u>2) ADTEC PLASMA TECHNOLOGY CO., LTD.</u> <u>3) NORIYOSHI SATO</u> <u>4) HIROSHI MASE</u> <u>5) TAMIYA FUJIWARA</u>
(10) Insert Address of Assignee	(10) <u>1) 14-20, Higashi-Nakano 3-chome, Nakano-ku, Tokyo 164-8511 JAPAN</u> <u>2) 5-6-10, Hikino-cho, Fukuyama-shi, Hiroshima 721-0942 JAPAN</u> <u>3) 4-17-113, Kadan, Aoba-ku, Sendai-shi, Miyagi 980-0815 JAPAN</u> <u>4) 5-3, Takasuzuki-cho 5-chome, Hitachi-shi, Ibaraki 317-0066 JAPAN</u> <u>5) 16-2, Nishi-Aoyama 2-chome, Morioka-shi, Iwate 020-0132 JAPAN</u>

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification such as Title, Case Number, or Foreign Application Number	(11) <u>PLASMA GENERATOR, OZONE GENERATOR, SUBSTRATE PROCESSING APPARATUS AND MANUFACTURING METHOD OF SEMICONDUCTOR DEVICE</u>
	<u>(Attorney Docket No. 124305)</u>
	for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or
(12) Insert Date of Signing of Application	(12) <u>on</u>
(13) Alternative Identification for filed applications	(13) <u>U.S. application Serial Number</u>
	<u>filed</u>

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date <u>July 28, 2005</u>	Inventor Signature <u>Noriyoshi SATO</u> (SEAL)
Date <u>June 30, 2005</u>	Inventor Signature <u>Takeshi TANIGUCHI</u> (SEAL)
Date <u>June 30, 2005</u>	Inventor Signature <u>Hiroshi MASE</u> (SEAL)
Date <u>August 7, 2005</u>	Inventor Signature <u>Tomiya FUJIWARA</u> (SEAL)
Date <u>August 12, 2005</u>	Inventor Signature <u>Shuatsu FUJII</u> (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date _____	Witness _____
Date _____	Witness _____

2. A. Name and address of receiving parties: (continued)

3) NORIYOSHI SATO
4-17-113, KADAN, AOBAKU, SENDAI-SHI,
MIYAGI 980-0815 JAPAN

4) HIROSHI MASE
5-3, TAKASUZU-CHO 5-CHOME,
HITACHI-SHI, IBARAKI 317-0066 JAPAN

5) TAMIYA FUJIWARA
16-2, NISHI-AOYAMA 2-CHOME,
MORIOKA-SHI, IWATE 020-0132 JAPAN